

B²
181 actgttcaaa atttcatgca atggtccatc tattaacgca ctaataatat ttatttttgg
241 tgcttttata caaataccca cttaatgac tatcataatc tcttatactc gtgtgctctt
301 tgatattctg aaaaaaaagt ctgaaaaggc cagaagcaaa gccttctcca catgcggcgc
361 ccatctgctt tctgttcat tgtactacgg aactctgac ttcatgtatg tgcgtcctgc
421 atctggctta gctgaagacc aagacaaagt gtattctctg ttttacacga ttataattcc
481 cctgcta (SEQ ID NO:224).

In the claims:

Please cancel claims 9, 10 and 12-20, amend claims 1-5 and 11 and replace the pending claims with the following:

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1. (Amended) An isolated nucleic acid molecule encoding an olfactory receptor (ORX) polypeptide, wherein said molecule comprises a nucleotide sequence of SEQ ID NO:224 or a complement thereof.
 2. (Amended) The nucleic acid molecule of claim 1, wherein said molecule hybridizes under stringent hybridization conditions to a nucleic acid sequence complementary to an ORX nucleic acid molecule comprising SEQ ID NO:224 or a complement thereof.
 3. (Amended) The nucleic acid molecule of claim 1, wherein said molecule encodes an ORX polypeptide comprising one or more conservative amino acid substitutions.
 4. (Amended) The nucleic acid molecule of claim 1, wherein said molecule encodes an ORX polypeptide, or a complement thereof.
 5. (Amended) An oligonucleotide of less than 100 nucleotides in length, which comprises at least 6 contiguous nucleotides of the ORX nucleic acid molecule of claim 1, or a complement thereof.
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6. A vector comprising the nucleic acid molecule of claim 1.
 7. The vector of claim 6, wherein said vector is an expression vector.
 8. The vector of claim 6, further comprising a regulatory element operably linked to said nucleic acid molecule.
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11. (Amended) A method of producing the polypeptide of claim 3, said method comprising the step of culturing a host cell under conditions in which the nucleic acid molecule is expressed.
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